#### Table 1C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

**Summary of Demographic Indicators** (2)

Total Records	Number	%
Complete Records	32,542	65.0
Prenatal Records	4,032	8.1
Postpartum Records	13,462	26.9
Total	50,036	

Source of Data		Number	%	
WIC			50,036	100.0
Maternal Health			0	0.0
Other			0	0.0
Total			50,036	100.0
Excluded Unknown	0	0.0 %		

Race/Ethnic Distribution	Number	%
White, Not Hispanic	25,426	51.0
Black, Not Hispanic	15,414	30.9
Hispanic	5,429	10.9
American Indian/Alaska Native	186	0.4
Asian/Pacific Islander	1,153	2.3
Multiple Races	2,295	4.6
All Other	0	0.0
Total	49,903	100.0
Excluded Unknown 131 0	.3 %	

Age Distribution	Number	%
< 15 Years	48	0.1
15 - 17 Years	1,124	2.3
18 - 19 Years	3,396	6.8
20 - 29 Years	30,330	60.8
30 - 39 Years	13,957	28.0
>= 40 Years	1,055	2.1
Total	49,910	100.0
Excluded Unknown: 126 0.3 %		

Education D	Number	%		
< High School			10,542	21.5
High School			23,341	47.5
> High School			15,217	31.0
Total			49,100	100.0
Excluded Unknown	936	1.9 %		

% of Povert	y Leve	el .	Number	%
0 - 50			13,719	37.6
51 - 100			8,824	24.2
101 - 130			4,425	12.1
131 - 150			2,315	6.3
151 - 185			3,192	8.8
186 - 200			942	2.6
> 200			2,947	8.1
Adjunctive Eligibility			115	0.3
Total			36,479	100.0
Excluded Unknown	95	0.2 %		

<b>Program Participation</b> (3)	Number	%
WIC	36,574	100.0
SNAP	36,507	43.2
Medicaid	36,496	90.6
Tanf	36,546	4.6
Excluded Unknown:		
WIC:	0	0.0
SNAP:	67	0.1
Medicaid:	78	0.2
Tanf:	28	0.1

Migrant S	Number	%		
Yes			352	0.7
No			49,684	99.3
Total			50,036	100.0
Excluded Unknown	0	0.0 %		

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Prenatal program participation

#### Table 2C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

### **Summary of Health Indicators**

Summary of Health Indicators (2)						
		Michigan Prevalence		National (7) Prevalence (Prior Year)		
	Number	%	Number	%		
Prepregnancy BMI (3)						
Underweight	36,925	4.0	128,555	4.0		
Normal Weight	36,925	35.1	128,555	34.4		
Overweight	36,925	24.7	128,555	24.9		
Obese	36,925	36.2	128,555	36.7		
Maternal Weight Gain (4)						
Less Than Ideal	21,575	18.2	89,471	22.3		
Ideal	21,575	29.7	89,471	28.1		
Greater Than Ideal	21,575	52.2	89,471	49.7		
Anemia (Low Hb/Hct) (5)						
1st Trimester	11,678	9.3	29,251	5.6		
2nd Trimester	8,403	12.8	29,194	6.5		
3rd Trimester	2,834	39.8	34,531	19.0		
Postpartum	956	30.9	48,409	17.0		
Parity (6)						
0	49,703	35.4	117,566	36.2		
1	49,703	28.5	117,566	29.7		
2	49,703	18.6	117,566	19.6		
>= 3	49,703	17.4	117,566	14.5		
Interpregnancy Interval						
<= 6 Months	31,484	12.2	73,728	13.7		
6 - <18 Months	31,484	26.1	73,728	24.3		
>= 18 Months	31,484	61.7	73,728	62.0		
Gestational Diabetes	45,597	8.3	94,843	9.2		
Hypertension During Pregnancy	45,629	12.4	94,594	9.6		

<sup>(1)</sup> Reporting period is January 1 through December 31

Run Date: 7/20/2021

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

<sup>(4)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>(6)</sup> Number of times a woman has given birth to an infant 20 or more weeks gestation

<sup>(7)</sup> National includes previous year's data for all participating States and ITOs.

<sup>\*</sup> Percentages are not calculated if <100 records are avilable for analysis after exclusions

#### Table 2C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

**Summary of Health Indicators** 

Summary of Health Indicators (2)						
		Michigan Prevalence		National (7) Prevalence (Prior Year)		
	Number	%	Number	%		
Medical Care						
1st Trimester	45,167	85.6	100,055	77.9		
No Care	45,167	6.4	100,055	5.0		
WIC Enrollment						
1st Trimester	49,385	29.3	134,286	21.1		
2nd Trimester	49,385	27.6	134,286	20.7		
3rd Trimester	49,385	16.8	134,286	29.2		
Postpartum (3)	49,385	26.3	134,286	29.0		
Prepregnancy Multivitamin Consumption (4)	38,062	20.3	82,984	20.5		
Multivitamin Consumption During Pregnancy (5)	36,374	89.1	79,295	89.0		
Smoking						
3 Months Prior to Pregnancy	43,650	22.6	126,132	26.9		
During Pregnancy	36,389	13.3	114,362	18.9		
Last 3 Months of Pregnancy	45,656	11.5	133,382	14.1		
Postpartum	45,663	11.8	133,620	14.6		
Smoking Changes (6)						
Quit Smoking by First Prenatal Visit	8,706	44.9	26,611	38.2		
Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes	7,693	39.4	21,263	35.7		
Smoking in Household						
During Pregnancy	36,252	8.6	97,728	11.9		
Postpartum	45,631	2.0	118,446	6.6		
Drinking						
3 Months Prior to Pregnancy	43,442	18.5	125,621	13.4		
Last 3 Months of Pregnancy	45,662	0.5	118,040	0.4		

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3)</sup> Women who initially enrolled in WIC during the postpartum period.

<sup>(4)</sup> Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy, proxy for folic acid consumption.

<sup>(5)</sup> Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

<sup>(6)</sup> Among women who smoked 3 months prior to pregnancy.

<sup>(7)</sup> National includes previous year's data for all participating States and ITOs.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 2C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

# **Summary of Health Indicators**

Summary of Health Indicators (2)						
		Michigan Prevalence		National (6) Prevalence (Prior Year)		
	Number	%	Number	%		
Birthweight (3)						
Very Low	42,825	1.6	99,198	1.3		
Low	42,825	9.2	99,198	8.4		
Normal	42,825	83.1	99,198	83.7		
High	42,825	6.1	99,198	6.5		
Preterm (4)	44,372	12.6	100,365	12.4		
Full term Low Birth Weight (5)	37,125	4.8	84,851	4.1		
Multiple Births	45,496	1.7	121,976	1.5		
Breastfeeding						
Ever Breastfed	43,607	64.8	99,674	72.2		

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31 (2) Excludes records with unknown data errors.

<sup>(3)</sup> Very low birth weight (<1500 g), low birth weight (1500 - <2500 g), normal birth weight (2500 - <4000 g), high birth weight (>4000 g).

<sup>(4) &</sup>lt;37 weeks gestation.

<sup>(5) 37</sup> or more weeks gestation <2500 g.

<sup>(6)</sup> National includes previous year's data for all participating States and ITOs.

\* Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 3C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

Comparison of Racial and Ethnic Distribution by Contributor to National (3)

Comparison of Racial and Ethnic Distribution (2)								
Contributor	Number Included in	White, Not Hispanic	Black, Not Hispanic	Hispanic	American Indian/Alaska Native	Asian/Pacific Islander	Multiple Races	All Other/Unknown
	Analysis	%	%	%	%	%	%	%
Michigan	50,034	50.8	30.8	10.9	0.4	2.3	4.6	0.3
National (Prior Year)	146,574	54.6	25.3	12.2	1.2	2.5	3.9	0.3

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31(2) Excludes data with errors

<sup>(3)</sup> National includes previous year's data for all participating States and ITOs.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

#### Table 4C

# **2020 Pregnancy Nutrition Surveillance** (1) Michigan

Comparison of Age Distribution by Contributor to National (3)

	Comparison of Age Distribution (2)												
Contributor	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %					
Michigan	50,036	0.1	2.2	6.8	60.6	27.9	2.1	0.3					
National (Prior Year)	146,580	0.1	2.9	8.8	61.5	24.9	1.8	0.1					

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31(2) Excludes data with errors

<sup>(3)</sup> National includes previous year's data for all participating States and ITOs.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

#### Table 5C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

Comparison of Maternal Health Indicators by Contributor to National (6)

Page: 7

Run Date: 7/20/2021

	Comparison of Maternal Health Indicators (2)													
Contributor	(3)					n	Anemia Gestation (Low Hb/Hct) Diabete  (5) Pregnand			etes ng	Hyperte Duri Pregn	ing		
		Under- weight	Over- weight		< Ideal	> Ideal	3rd Trin	nester	Postpa	artum				
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%
Michigan	36,925	4.0	60.9	21,575	18.2	52.2	2,834	39.8	956	30.9	45,597	8.3	45,629	12.4
National (Prior Year)	128,555	4.0	61.6	89,471	22.3	49.7	34,531	19.0	48,409	17.0	94,843	9.2	94,594	9.6

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

<sup>(4)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>(6)</sup> National includes previous year's data for all participating States and ITOs.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 6C

# **2020** Pregnancy Nutrition Surveillance (1)

# Michigan

Comparison of Maternal Behavioral Indicators by Contributor to National (5)

Comparison of Maternal Behavioral Indicators (2)											
Contributor		Medical Care WIC Enrollment Multivitamin Consumption									
	1st Trin	nester	No Care	1st Tr	imester	Prepregnancy (3)		During Pregnanc			
	Number	Number % %			%	Number	%	Number	%		
Michigan	45,167	85.6	6.4	49,385	29.3	38,062	20.3	36,374	89.1		
National (Prior Year)	100,055	77.9	5.0	134,286	21.1	82,984	20.5	79,295	89.0		

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Woman who reported taking a multivitamin four times a weeks or more in the month before pregnancy: proxy for folic acid consumption.

<sup>(4)</sup> Pregnant women who reported tkaing a multivitamin in the past month; proxy for prenatal iron consumption.

 <sup>(5)</sup> National includes previous year's data for all participating States and ITOs.
 \* Percentages are not calculated if <100 records are available for analysis after exclusions.</li>

#### Table 7C

# 2020 Pregnancy Nutrition Surveillance (

Comparison of Smoking Indicators by Contributor to National (4)

**Comparison of Smoking Indicators** (2) Contributor **Quit Smoking** By First Prenatal **Smoking** Smoking in Household Visit and Stayed Off Cigarettes (3) 3 Months Last 3 Months Prenatal Postpartum Prior to Pregnancy of Pregnancy % % % % Number Number Number % Number Number Michigan 43,650 45,656 7,693 36,252 45,631 22.6 11.5 39.4 8.6 2.0 **National (Prior Year)** 126,132 26.9 133,382 14.1 21,263 97,728 118,446 35.7 11.9 6.6

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy.

<sup>(4)</sup> National includes previous year's data for all participating States and ITOs.

Percentages are not calculated if <100 records are available for analysis after exclusions.

#### Table 8C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

Comparison of Infant Health Indicators by Contributor to National (7)

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Run Date: 7/20/2021

Comparison of Infant Health Indicators (2)												
Contributor		Birthweight		Pre	eterm	Full Te	rm LBW	Ever Breastfed				
		Low High (3) (4)			(5)		(6)					
	Number	%	%	Number	%	Number	%	Number	%			
Michigan	42,825	10.8	6.1	44,372	12.6	37,125	4.8	43,607	64.8			
National (Prior Year)	99,198	9.7	6.5	100,365	12.4	84,851	4.1	99,674	52.7			

<sup>(1)</sup> Reporting period is January 1 through December 31(2) Excludes records with unkown data errors.(3) <2500 g.</li>

<sup>(4) &</sup>gt;4000 g. (5) <37 weeks gestation.

<sup>(6) 37</sup> or more weeks gestation and <2500 g.

<sup>(7)</sup> National includes previous year's data for all participating States and ITOs.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

#### Table 9C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

Maternal Health Indicators by Race/Ethnicity, Age, or Education

Maternal Health Indicators by Race/Ethnicity, Age, or Education

	N	Materna	l Healt	th Indicat	ors by	Race/E	Ethnicity,	Age, o	r Educati	<b>on</b> (2)				
	Prepre	egnancy E (3)	ЗМІ	We	eight Gain (4)		A	٠.	ow Hb/Hct) 5)		Gestational Diabetes		Hyperter Durir Pregna	ng
		Under- Weight	Over- Weight		< Ideal	>ldeal	3rd Trim	nester	Postpa	rtum				
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%
Race/Ethnicity														
White, Not Hispanic	19,218	4.5	58.7	11,561	16.5	53.4	1,363	31.9	533	23.1	23,116	8.5	23,132	12.0
Black, Not Hispanic	11,268	3.4	63.5	6,440	19.3	52.3	1,005	52.1	226	50.9	14,213	6.6	14,221	14.8
Hispanic	3,814	2.5	66.8	2,051	21.6	47.9	284	34.9	128	28.9	4,974	10.2	4,977	9.3
American Indian/Alaska Native	143	2.1	63.6	77	*	*	8	*	2	*	156	14.1	156	10.3
Asian/Pacific Islander	696	7.0	42.8	397	29.0	31.0	56	*	18	*	1,071	16.9	1,072	6.2
Multiple Races	1,784	4.0	61.7 *	1,048	18.8	54.3 *	118	39.8	49	*	2,065	7.5	2,069	12.0
All Other/Unknown	0			0	40.0		0	20.0	0		0		0	
Total Age	36,925	4.0	60.9	21,575	18.2	52.2	2,834	39.8	956	30.9	45,597	8.3	45,629	12.4
-	24	*	*	1,5	*	*	5	*		*	10	*	40	*
< 15 Years	31			15	40.5	<b>50.0</b>	ľ	*	1	*	42		42	
15 - 17 Years	876	8.6	38.6	471	19.5	52.0	70		25	*	1,007	1.3	1,006	11.4
18 - 19 Years	2,646	7.0	45.9	1,493	17.5	55.9	208	38.5	60		3,041	2.6	3,043	12.1
20 - 29 Years	22,683	4.2	59.8	13,300	17.8	52.7	1,788	40.6	602	30.7	27,640	6.6	27,663	11.4
30 - 39 Years	9,903	2.2	68.6	5,878	18.9	50.4	707	37.8	243	28.4	12,822	13.0	12,830	14.3
>= 40 Years	700	1.3	76.0	379	18.5	47.0	50	*	25	*	937	19.4	937	20.4
Unknown	86	*	*	39	*	*	6	*	0	*	108	3.7	108	13.0
Total	36,925	4.0	60.9	21,575	18.2	52.2	2,834	39.8	956	30.9	45,597	8.3	45,629	12.4
Education														
< High School	7,355	5.2	57.0	4,083	21.2	49.4	594	43.4	200	37.5	9,635	7.4	9,644	10.9
High School	17,402	4.3	60.5	10,162	18.3	52.3	1,362	40.7	432	29.6	21,431	7.8	21,456	12.8
> High School	11,661	2.7	64.2	7,032	16.3	53.4	848	36.0	306	29.1	13,824	9.6	13,823	13.0
Excluded Unknown	507	3.9	55.6	298	13.8	55.4	30	*	18	*	707	8.3	706	11.3
Total	36,925	4.0	60.9	21,575	18.2	52.2	2,834	39.8	956	30.9	45,597	8.3	45,629	12.4

<sup>(1)</sup> Reporting period is January 1 through December 31

Run Date: 7/20/2021

<sup>(2)</sup> Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

<sup>(3)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

<sup>(4)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 10C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education

Materna	al Behavioral	Indicato	ors by Rac	e/Ethnicit	ty, Age,	or Educat	ion (2)		
	M	1edical Ca	are	WIC Enr	ollment	М	ultivitamin	Consumptio	n
	1st Trim	ester	No Care	1st Trir	nester	Prepreg		During Pr	
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	22,936	86.6	7.7	25,115	32.8	20,256	23.5	18,919	90.5
Black, Not Hispanic	14,068	84.2	4.0	15,206	22.4	10,702	14.4	10,572	87.5
Hispanic	4,915	84.0	7.5	5,354	32.7	4,306	20.8	4,169	87.3
American Indian/Alaska Native	158	87.3	5.1	182	30.8	159	24.5	139	87.8
Asian/Pacific Islander	1,042	90.7	5.0	1,133	27.8	865	18.8	849	90.1
Multiple Races	2,046	85.1	7.0	2,266	31.0	1,772	19.0	1,725	86.7
All Other/Unknown	0	*	*	127	3.9	0	*	0	*
Total	45,167	85.6	6.4	49,385	29.3	38,062	20.3	36,374	89.1
Age									
< 15 Years	42	*	*	46	*	43	*	37	*
15 - 17 Years	996	72.1	9.7	1,112	31.1	958	9.5	904	88.3
18 - 19 Years	3,010	82.6	8.2	3,371	34.6	2,859	11.1	2,743	88.1
20 - 29 Years	27,388	86.1	6.1	29,951	28.3	22,995	18.8	21,975	89.0
30 - 39 Years	12,698	86.5	6.3	13,738	29.7	10,310	26.7	9,875	89.9
>= 40 Years	928	85.7	6.1	1,042	33.0	802	28.7	745	87.1
Unknown	105	75.2	8.6	125	26.4	95	*	95	*
Total	45,167	85.6	6.4	49,385	29.3	38,062	20.3	36,374	89.1
Education									
< High School	9,520	81.2	7.5	10,376	29.7	7,593	13.8	7,810	85.9
High School	21,236	85.3	6.4	23,053	29.5	17,777	18.4	17,177	88.7
> High School	13,726	89.2	5.5	15,039	29.1	12,054	27.0	10,888	91.9
Excluded Unknown	685	85.0	8.5	917	22.5	638	24.9	499	88.8
Total	45,167	85.6	6.4	49,385	29.3	38,062	20.3	36,374	89.1

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data for behavioral indicators, and data with errors for behavioral and demographic indicators.

<sup>(3)</sup> Woman who reported taking a multivitamin four a weeks or more in the month before pregnancy, proxy for folic acid consumption.

<sup>(4)</sup> Pregnant women who reported tkaing a multivitamin in the past month; proxy for prenatal iron consumption.

Percentages are not calculated if <100 records are available for analysis after exclusions.

#### Table 11C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

Smoking Indicators by Race/Ethnicity, Age, or Education

Smoking Indicators by Race/Ethnicity, Age, or Education (2) Quit Smoking By First Prenatal **Smoking** Smoking in Household Visit and Stayed Off Cigarettes (3) 3 Months Last 3 Months Prenatal Postpartum Prior to Pregnancy of Pregnancy Number Number Number % Number % Number % Race/Ethnicity White. Not Hispanic 22.877 29.2 23.142 16.7 5.158 34.1 18.886 9.2 23.138 2.0 Black, Not Hispanic 12,753 15.0 14,222 5.6 1,534 53.6 10,548 9.3 14,219 2.5 470 Hispanic 4,799 12.2 4,984 4.5 55.5 4,116 4.5 4,976 1.0 American Indian/Alaska Native 168 138 3.1 44.0 159 22.6 54 18.1 159 Asian/Pacific Islander 1.062 2.7 1.073 0.7 24 847 1.8 1.069 0.7 1,989 2,074 453 1,716 2.2 Multiple Races 29.1 16.1 35.1 11.1 2,068 All Other/Unknown 0 0 0 0 0 Total 43,650 22.6 45.656 11.5 7.693 39.4 36.252 8.6 45,631 2.0 Age 42 38 42 < 15 Years 48 4 1.100 1.014 109 899 1.016 15 - 17 Years 11.9 4.3 54.1 20.6 6.3 18 - 19 Years 3,235 21.1 3,040 8.3 543 50.6 2.734 15.4 3,040 3.4 20 - 29 Years 27,671 21,900 27,655 2.0 26,280 22.7 11.1 4,680 41.9 8.1 30 - 39 Years 11.919 24.1 12.842 13.9 2.214 31.5 9.838 6.7 12.833 1.6 >= 40 Years 950 19.2 939 10.8 131 26.0 748 7.1 938 1.1 Unknown 118 12.7 108 7.4 12 95 107 3.7 36.252 Total 43.650 22.6 45.656 11.5 7.693 39.4 8.6 45.631 2.0 Education < High School 8,819 30.5 9,648 2,171 7,757 11.9 2.7 17.9 31.6 9,651 11.5 3,798 High School 20,306 23.8 21,456 40.9 17,139 8.8 21,449 2.2 > High School 13.778 16.0 13.841 7.2 1.648 46.4 10.856 5.9 13.822 1.4 **Excluded Unknown** 747 711 8.7 76 500 11.2 709 2.0 16.6 36,252 Total 43,650 22.6 45,656 11.5 7,693 39.4 8.6 45,631 2.0

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data for smoking indicators, and data with errors for smoking and demographic indicators.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy.

Percentages are not calculated if <100 records are available for analysis after exclusions.

#### Table 12C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

Infant Health Indicators by Race/Ethnicity, Age, or Education

Infant Health Indicators by Race/Ethnicity, Age, or Education (2)													
		Birthweight	1	Prete	erm	Full Terr	n LBW	Ever Br	eastfed				
		Low (3)	High (4)	(5	)	(6)	)						
	Number	%	%	Number	%	Number	%	Number	%				
Race/Ethnicity													
White, Not Hispanic	21,714	8.7	7.6	22,434	10.9	19,212	3.6	22,058	69.8				
Black, Not Hispanic	13,398	15.0	3.4	13,902	15.6	11,200	6.9	13,622	54.7				
Hispanic	4,620	7.8	7.3	4,818	11.7	4,040	3.3	4,758	68.7				
American Indian/Alaska Native	150	8.7	8.7	154	11.7	128	4.7	151	69.5				
Asian/Pacific Islander	976	12.9	3.6	1,037	10.6	861	7.7	1,023	71.1				
Multiple Races	1,965	11.6	6.1	2,025	13.3	1,683	5.0	1,993	66.5				
All Other/Unknown	0	*	*	0	*	0	*	0	*				
Total	42,825	10.8	6.1	44,372	12.6	37,125	4.8	43,607	64.8				
Age													
< 15 Years	41	*	*	40	*	32	*	41	*				
15 - 17 Years	971	10.1	4.5	995	11.9	854	6.3	977	56.7				
18 - 19 Years	2,890	9.1	4.7	2,990	10.3	2,577	4.9	2,918	62.1				
20 - 29 Years	26,112	8.4	6.0	26,982	11.4	22,944	4.5	26,554	65.3				
30 - 39 Years	11,898	10.4	6.8	12,390	15.3	9,981	5.1	12,168	65.3				
>= 40 Years	812	13.5	5.8	870	19.7	650	7.4	846	65.0				
Unknown	101	5.9	4.0	105	14.3	87	*	103	63.1				
Total	42,825	10.8	6.1	44,372	12.6	37,125	4.8	43,607	64.8				
Education													
< High School	8,937	10.0	5.1	9,352	13.4	7,662	5.8	9,152	53.3				
High School	20,204	9.3	5.8	20,887	12.4	17,537	4.9	20,535	63.2				
> High School	13,038	8.3	7.1	13,453	12.3	11,361	3.8	13,253	75.3				
Excluded Unknown	646	8.5	8.8	680	11.0	565	5.0	667	65.1				
Total	42,825	10.8	6.1	44,372	12.6	37,125	4.8	43,607	64.8				

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

<sup>(3) &</sup>lt;2500 g.

<sup>(4) &</sup>gt;4000 g. (5) <37 weeks gestation.

<sup>(6) 37</sup> or more weeks gestation and <2500 g.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 13C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

Maternal Weight Gain and Birth Outcomes by Select Health Indicators

Maternal Weight Gain and Birth Outcomes by Select Health Indicators (2)													
	W	eight Gain	(3)	1	Birthweight	t							
		< Ideal	> Ideal		Low (4)	High (5)	Prete (6		Full Terr (7				
	Number	%	%	Number	%	%	Number	%	Number	%			
Prepregnancy BMI													
Underweight	890	27.1	29.2	1,248	17.8	1.8	1,289	14.0	1,060	10.6			
Normal Weight	7,811	22.7	42.4	11,222	11.8	3.8	11,538	12.3	9,773	5.5			
Overweight	5,339	10.7	62.6	7,940	9.5	6.5	8,155	11.5	6,975	4.2			
Obese	7,535	17.7	57.6	11,772	9.6	8.5	12,022	13.0	10,135	3.6			
Weight Gain													
< Ideal	-	-	-	3,690	18.5	2.8	3,781	17.6	3,023	8.6			
Ideal	-	-	-	6,184	11.6	4.0	6,296	13.0	5,325	5.1			
> Ideal	-	-	-	10,911	7.8	8.8	11,076	10.4	9,685	3.2			
Smoking During Pregnancy													
Smokers	1,976	19.0	51.0	3,905	14.3	3.5	4,066	13.9	3,356	7.5			
Non-Smokers	12,058	17.3	53.2	26,404	8.8	6.7	27,433	11.5	23,324	4.0			

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3)</sup> Based on 2009 IOM report "Weight Gain Druing Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

<sup>(4) &</sup>lt;2500 g.

<sup>(5) &</sup>gt; 4000 g.

<sup>(6) &</sup>lt;37 weeks gestation.

<sup>(7) 37</sup> or more weeks gestation and <2500 g.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 14C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

**Summary of Trends in Racial and Ethnic Distribution** 

Summary of Trends in Racial and Ethnic Distribution (2) Year Black, Not Asian/Pacific Multiple Races ΑII White, Not Hispanic American Number Indian/Alaska Hispanic Hispanic Islander Other/Unknown Included in Native Analysis % % % % % % % 2020 50,034 0.4 2.3 50.8 30.8 10.9 4.6 0.3 54,099 51.1 2019 30.6 10.6 0.4 2.1 4.8 0.4 55,407 51.7 2018 29.9 10.5 0.4 2.1 4.9 0.5 2.3 57,669 2017 52.1 30.4 10.4 0.3 4.0 0.5 2016 60,139 53.6 28.9 10.6 0.3 2.1 4.0 0.5 2.1 2015 63,103 54.0 29.0 10.2 0.4 3.6 8.0 65,941 55.7 28.0 9.7 2.0 3.6 0.6 2014 0.4 2013 67,256 55.5 28.3 9.9 0.4 2.0 3.5 0.6 67,977 1.9 3.4 2012 56.2 27.5 10.0 0.4 0.6 1.7 2011 68,267 57.0 27.3 10.0 0.4 2.9 0.6

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 15C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan Summary of Trends in Age Distribution

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Run Date: 7/20/2021

	Summary of Trends in Age Distribution (2)													
Year	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %						
2020	50,036	0.1	2.2	6.8	60.6	27.9	2.1	0.3						
2019	54,102	0.1	2.4	7.4	61.8	26.1	2.0	0.2						
2018	55,413	0.1	2.6	7.7	62.5	25.1	2.0	0.1						
2017	57,676	0.1	2.8	7.7	63.1	24.3	1.8	0.1						
2016	60,143	0.1	3.0	7.9	63.4	23.7	1.8	0.1						
2015	63,108	0.1	3.2	8.4	63.8	22.8	1.6	0.2						
2014	65,945	0.2	3.4	9.1	63.5	22.1	1.7	0.2						
2013	67,261	0.2	3.9	9.8	63.1	21.2	1.6	0.2						
2012	67,977	0.2	4.5	10.7	62.2	20.5	1.5	0.3						
2011	68,267	0.2	4.9	11.5	61.7	19.9	1.5	0.3						

<sup>(1)</sup> Reporting period is January 1 through December 31(2) Excludes records with unknown data errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 16C

# 2020 Pregnancy Nutrition Surveillance (Michigan

#### **Summary of Trends in Maternal Health Indicators**

**Summary of Trends in Maternal Health Indicators** (2) Weight Gain Year Prepregnancy BMI Anemia (Low Hb/Hct) (3) (4) (5) Under-Over-3rd Trimester < Ideal > Ideal Postpartum weight weight % % % % % % Number Number Number Number 2020 36,925 4.0 60.9 21,575 18.2 52.2 2.834 39.8 956 30.9 2019 43.733 4.2 60.6 27.372 19.1 51.5 9.098 45.0 12.203 30.7 2018 45,296 4.3 59.5 29,118 19.1 51.0 9,090 49.4 12,050 37.9 2017 47,111 4.3 58.8 31,292 19.1 51.9 9,416 49.2 11,325 36.6 2016 51,019 4.4 58.1 33,141 19.4 51.2 9,642 45.1 12,082 34.6 2015 53,616 4.4 56.8 44,468 19.6 50.7 9,750 41.4 12,310 31.6 2014 56,540 4.3 56.3 45,714 17.2 52.3 9,959 39.6 12,485 28.7 2013 58,063 4.3 56.0 46,728 16.9 52.4 9,903 38.9 11,995 28.7 61,321 2012 4.4 54.9 48.759 17.4 51.3 9.736 38.4 12,636 27.9 2011 62,450 4.4 54.4 50,780 17.6 51.0 10,073 35.7 13,689 27.5

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

<sup>(4)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 40 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 17C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan Summary of Maternal Behavioral Indicators

Summary of Maternal Behavioral Indicators (2)										
Year		Medical Car	е	WIC Enrollment						
	1st Trim	nester	No Care	1st Tri	mester					
	Number	%	%	Number	%					
2020	45,167	85.6	6.4	49,385	29.3					
2019	49,415	84.9	6.6	53,324	28.5					
2018	50,875	84.3	6.8	54,591	29.4					
2017	53,045	83.1	7.7	56,717	30.6					
2016	54,902	82.2	8.4	59,189	32.4					
2015	57,579	81.1	9.4	62,203	34.1					
2014	60,317	79.7	10.8	64,954	35.7					
2013	61,039	79.9	10.5	66,266	36.9					
2012	61,308	79.8	10.6	67,036	38.0					
2011	60,703	81.1	9.2	67,132	36.7					

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31(2) Excludes records with unknown data errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 18C

# **2020 Pregnancy Nutrition Surveillance** (1) Michigan

**Summary of Trends in Smoking Indicators** 

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Run Date: 7/20/2021

		S	summary of	Trends in	Smoking Ir	ndicators	(2)				
Year		Sm	ooking		By First Visit and S	moking Prenatal Stayed Off ttes (3)	Smoking in Household				
		onths regnancy		Months gnancy			Prer	natal	Postp	Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%	
2020	43,650	22.6	45,656	11.5	7,693	39.4	36,252	8.6	45,631	2.0	
2019	47,367	24.7	49,881	13.5	9,363	38.4	39,647	10.1	49,826	2.9	
2018	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0	
2017	51,028	27.1	53,711	14.1	11,398	39.3	43,712	11.3	53,738	3.2	
2016	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4	
2015	56,882	30.6	58,245	15.8	14,580	39.6	49,656	13.4	58,264	4.2	
2014	60,217	32.0	61,120	16.4	16,301	39.4	52,726	14.6	61,124	4.5	
2013	62,025	32.3	61,793	16.8	18,044	36.4	54,649	15.1	61,835	5.0	
2012	63,072	32.4	61,988	16.9	16,769	38.6	55,380	16.0	61,994	4.9	
2011	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5	

<sup>(1)</sup> Reporting period is January 1 through December 31 (2) Excludes records with unknown data errors.

<sup>(3)</sup> Prenatal program participation
\* Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 19C

# 2020 Pregnancy Nutrition Surveillance (Michigan

**Summary of Trends in Infant Health Indicators** 

**Summary of Trends in Infant Health Indicators** Year Birthweight Preterm Full Term LBW Ever Breastfed (5) High (6) Low (4)(3) % % % % Number Number Number % Number 42,825 2020 10.8 6.1 44,372 12.6 37,125 4.8 43,607 64.8 10.4 47,531 2019 47,135 6.4 48,449 12.5 40,866 4.5 67.8 10.2 6.7 48,971 67.7 2018 48,594 49,968 12.5 42,176 4.5 51,003 2017 50,526 10.2 6.7 52,025 12.4 43,785 4.3 66.7 52,145 6.9 53,729 12.3 4.2 52,506 9.8 45,193 66.2 2016 54,702 47,832 54,837 9.7 56,532 2015 6.9 11.9 4.2 65.1 2014 57,572 7.0 50,471 57,574 9.0 59,292 11.8 3.8 63.6 58,101 2013 58,028 8.7 7.2 59,882 11.5 50,981 3.7 63.1 2012 58,368 8.8 7.3 60,111 12.1 50,877 3.7 58,753 61.2 2011 58,040 8.6 7.1 59,523 11.7 50,780 3.6 58,401 60.5

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3) &</sup>lt;2500 g.

<sup>(4) &</sup>gt; 4000 g.

<sup>(5) &</sup>lt;37 weeks gestation.

<sup>(6) 37</sup> or more weeks gestation and <2500 g.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 20C

# 2020 Pregnancy Nutrition Surveillance Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) Race/Ethnicity Prepregnancy BMI Weight Gain Year Anemia (Low Hb/Hct) (3) (4) (5) Under-Over-< Ideal > Ideal 3rd Trimester Postpartum weight weight % % % % % % Number Number Number Number White, Not Hispanic 2020 19.218 11,561 1,363 533 4.5 58.7 16.5 53.4 31.9 23.1 4,351 6,717 2019 22.546 4.6 58.7 14.128 17.5 52.7 35.0 23.2 23.428 4.414 6.888 29.5 2018 4.6 57.1 14.986 17.8 52.3 39.6 2017 24,340 4.7 56.3 15,648 17.8 53.3 4,514 39.7 6,533 29.0 Black, Not Hispanic 226 2020 11,268 3.4 63.5 6,440 19.3 52.3 1,005 52.1 50.9 13,399 8,438 3,126 3,274 2019 3.7 63.1 19.9 52.9 60.9 45.9 13,810 9,119 19.5 3,123 3,041 2018 3.9 62.9 52.4 64.4 56.4 2017 14,791 3.7 62.3 10,603 19.4 52.4 3,380 63.6 2,870 53.4

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

<sup>(4)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 20C

# 2020 Pregnancy Nutrition Surveillance (Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) Race/Ethnicity Prepregnancy BMI Weight Gain Year Anemia (Low Hb/Hct) (3) (4) (5) Under-Over-< Ideal > Ideal 3rd Trimester Postpartum weight weight % % % Number % % % Number Number Number **Hispanic** 2020 3.814 2,051 284 128 2.5 66.8 21.6 47.9 34.9 28.9 2,862 1,282 2019 4,605 2.6 67.1 22.8 45.5 981 38.2 30.9 1,184 4.704 2.934 22.7 850 45.4 38.3 2018 2.5 65.6 44.3 1,071 3,119 2017 4,919 3.0 64.2 23.0 45.8 908 42.4 37.0 American Indian/Alaska Native 77 8 2 2020 143 2.1 63.6 2019 89 24 160 6.9 61.9 43 84 33 2018 153 5.9 60.8 56 2017 153 6.5 58.2 96 23 42

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

<sup>(4)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 20C

# 2020 Pregnancy Nutrition Surveillance Michigan

#### Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) Race/Ethnicity Prepregnancy BMI Weight Gain Year Anemia (Low Hb/Hct) (3) (4) (5) Under-Over-< Ideal > Ideal 3rd Trimester Postpartum weight weight % % % % % % Number Number Number Number Asian/Pacific Islander 18 2020 696 7.0 397 29.0 56 42.8 31.0 881 2019 7.4 39.4 568 26.6 29.6 170 38.2 287 28.9 2018 903 546 31.5 162 34.6 294 7.9 41.1 29.1 35.0 2017 964 7.6 38.1 602 30.2 34.6 186 37.6 295 32.5 **Multiple Races** 118 49 2020 1,784 4.0 61.7 1,048 18.8 54.3 39.8 1,284 598 2019 2,136 60.9 18.8 52.9 446 48.4 4.4 31.6 2,265 1,429 503 578 2018 4.9 58.9 18.9 50.9 54.5 42.6 2017 1,927 4.4 59.0 1,210 18.5 52.9 400 54.3 497 41.4

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

<sup>(4)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 20C

# 2020 Pregnancy Nutrition Surveillance (

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2) Race/Ethnicity Prepregnancy BMI Weight Gain Year Anemia (Low Hb/Hct) (3) (4) (5) Over-Under-3rd Trimester < Ideal > Ideal Postpartum weight weight % % % Number % % % Number Number Number All Other/Unknown 2020 0 0 0 0 2019 3 2 2018 29 20 8 4 9 2017 10 0 15 **Total All Race/Ethnic Groups** 36,925 21,575 956 2020 4.0 60.9 18.2 52.2 2,834 39.8 30.9 43,733 27,372 9,098 12,203 2019 4.2 60.6 19.1 45.0 30.7 51.5 45,296 29,118 9,090 49.4 12,050 2018 4.3 59.5 19.1 51.0 37.9 47,111 2017 4.3 58.8 31,292 19.1 51.9 9,416 49.2 11,325 36.6

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9). overweight (BMI 25.0 to 29.9), obese (BMI > 30.0).

<sup>(4)</sup> Based on 2009 IOM report "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 21C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in	Maternal B	ehavioral I	ndicato	rs by Rac	e/Ethnicit	<b>ty</b> (2)
Race/Ethnicity	Year	М	edical Ca	re	WIC Enr	ollment
		1st Trim	ester	No Care	1st Trin	nester
		Number	%	%	Number	%
White, Not Hispanic						
	2020	22,936	86.6	7.7	25,115	32.8
	2019	25,289	86.5	7.7	27,266	31.7
	2018	26,419	85.8	8.1	28,188	32.9
	2017	27,700	84.7	9.1	29,532	34.7
Black, Not Hispanic						
	2020	14,068	84.2	4.0	15,206	22.4
	2019	15,338	82.8	4.2	16,325	21.3
	2018	15,371	82.7	3.8	16,355	21.7
	2017	16,319	81.6	4.4	17,248	21.8

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31 (2) Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 21C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Ma	aternal Bo	ehavioral Indicators by Race/Ethnicity							
Race/Ethnicity	Year	М	edical Ca	re	WIC Enrollment				
		1st Trime	ester	No Care	1st Trin	nester			
		Number	%	%	Number	%			
Hispanic									
	2020	4,915	84.0	7.5	5,354	32.7			
	2019	5,240	83.3	8.1	5,672	32.9			
	2018	5,277	80.5	9.9	5,723	35.2			
	2017	5,474	79.4	11.0	5,888	36.7			
American Indian/Alaska Native									
	2020	158	87.3	5.1	182	30.8			
	2019	170	85.3	8.2	189	34.4			
	2018	169	84.6	6.5	195	30.3			
	2017	174	82.8	10.3	192	39.1			

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31 (2) Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 21C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in	Maternal B	ehavioral l	Indicato	rs by Rac	e/Ethnicit	<b>y</b> (2)		
Race/Ethnicity	Year	M	ledical Ca	re	WIC Enrollment			
		1st Trim	ester	No Care	1st Trin	nester		
		Number	%	%	Number	%		
Asian/Pacific Islander								
	2020	1,042	90.7	5.0	1,133	27.8		
	2019	1,064	91.0	5.4	1,136	32.0		
	2018	1,099	89.1	5.4	1,162	30.1		
	2017	1,226	87.7	5.3	1,293	28.0		
Multiple Races								
	2020	2,046	85.1	7.0	2,266	31.0		
	2019	2,309	83.3	6.6	2,533	31.3		
	2018	2,517	84.4	5.8	2,693	30.4		
	2017	2,129	80.5	9.3	2,278	33.0		

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31 (2) Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 21C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Ma	aternal B	ehavioral I	ndicato	rs by Rac	e/Ethnici	<b>ty</b> (2)
Race/Ethnicity	Year	М	edical Ca	WIC En	rollment	
		1st Trime	ester	No Care	1st Trir	nester
		Number	%	%	Number	%
All Other/Unknown						
	2020	0	*	*	127	3.9
	2019	2	*	*	200	1.0
	2018	21	*	*	269	2.6
	2017	16	*	*	279	0.7
Total All Race/Ethnic Groups						
	2020	45,167	85.6	6.4	49,385	29.3
	2019	49,415	84.9	6.6	53,324	28.5
	2018	50,875	84.3	6.8	54,591	29.4
	2017	53,045	83.1	7.7	56,717	30.6

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31 (2) Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 22C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

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Run Date: 7/20/2021

	Sumn	nary of Tre	nds in S	Smoking Ir	ndicator	s by Race	/Ethnicit	<b>y</b> (2)			
Race/Ethnicity	Year		Sm	oking		Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Mo		Last 3 Months of Pregnancy				Pren	atal	Postpa	artum
		Number	%	Number	%	Number	%	Number	%	Number	%
White, Not Hispanic											
	2020	22,877	29.2	23,142	16.7	5,158	34.1	18,886	9.2	23,138	2.0
	2019	24,850	31.9	25,511	19.2	6,274	32.6	20,589	10.5	25,500	2.8
	2018	25,740	33.6	26,654	19.8	6,992	33.0	21,521	11.1	26,665	2.8
	2017	27,201	34.3	28,001	20.2	7,583	33.4	23,102	11.9	28,026	3.1
Black, Not Hispanic											
	2020	12,753	15.0	14,222	5.6	1,534	53.6	10,548	9.3	14,219	2.5
	2019	13,854	16.4	15,488	6.7	1,892	54.2	11,523	11.7	15,469	3.4
	2018	13,953	17.7	15,561	6.9	2,044	55.5	11,708	11.5	15,571	3.9
	2017	14,920	19.3	16,531	6.9	2,473	54.7	12,760	12.2	16,535	3.9

<sup>(1)</sup> Reporting period is January 1 through December 31 (2) Excludes data with errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy
\* Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 22C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

**Summary of Trends in Smoking Indicators by Race/Ethnicity** 

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Run Date: 7/20/2021

	Summ	ary of Tre	nds in S	moking Ir	ndicator	s by Race	Ethnicity	<b>y</b> (2)			
Race/Ethnicity	Year		Smo	oking		Quit Sn By First I Visit and S Cigaret	Prenatal stayed Off	Smoking in Household			
		3 Moi Prior to Pr		Last 3 North				Prenatal		Postpa	rtum
		Number	%	Number	%	Number	%	Number	%	Number	%
Hispanic											
	2020	4,799	12.2	4,984	4.5	470	55.5	4,116	4.5	4,976	1.0
	2019	5,158	13.0	5,299	5.6	553	52.4	4,540	4.7	5,278	1.6
	2018	5,195	14.3	5,381	5.9	622	51.9	4,620	5.1	5,380	1.5
	2017	5,434	14.2	5,582	5.7	653	53.0	4,894	5.4	5,578	1.6
American Indian/Alaska Native											
	2020	168	44.0	159	22.6	54	*	138	18.1	159	3.1
	2019	174	44.8	170	30.0	62	*	148	10.8	171	6.4
	2018	180	49.4	167	36.5	60	*	148	20.9	168	8.3
	2017	175	49.7	171	33.3	73	*	150	24.0	172	8.1

<sup>(1)</sup> Reporting period is January 1 through December 31 (2) Excludes data with errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy
\* Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 22C

# 2020 Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2) Race/Ethnicity Year **Quit Smoking** By First Prenatal **Smoking** Smoking in Household Visit and Stayed Off Cigarettes (3) 3 Months Last 3 Months Prenatal Postpartum Prior to Pregnancy of Pregnancy % Number % % % % Number Number Number Number Asian/Pacific Islander 24 1,069 1,062 0.7 847 0.7 2020 2.7 1,073 1.8 1,058 1,076 2019 3.2 1,077 1.1 18 851 3.1 2.3 27 2018 1,106 3.4 1,116 1.4 879 1.9 1,114 1.2 2017 1,232 3.6 1,248 37 991 2.8 1,249 1.5 1.4 **Multiple Races** 2,074 2,068 2020 1,989 29.1 16.1 453 35.1 1,716 11.1 2.2 2,266 2,331 1,992 2,327 2019 30.7 17.6 562 35.2 12.9 3.6 2018 2.396 29.8 2,538 16.4 586 38.4 2.109 12.7 2,540 3.7 2,155 2017 2.043 34.0 18.1 577 36.0 1.810 15.0 2,155 4.4

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes data with errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 22C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

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Run Date: 7/20/2021

	Summ	ary of Tre	nds in S	moking I	ndicator	s by Race	/Ethnicit	<b>y</b> (2)			
Race/Ethnicity	Year		Smo	oking		Quit Sn By First I Visit and S Cigare	Prenatal Stayed Off	Smoking in Household			
		3 Mo Prior to Pi			Months gnancy			Pren	atal	Postpa	artum
		Number	%	Number	%	Number	%	Number	%	Number	%
All Other/Unknown											
	2020	0	*	0	*	0	*	0	*	0	*
	2019	4	*	2	*	0	*	2	*	2	*
	2018	25	*	22	*	0	*	5	*	22	*
	2017	16	*	16	*	0	*	0	*	16	*
Total All Race/Ethnic Groups											
	2020	43,650	22.6	45,656	11.5	7,693	39.4	36,252	8.6	45,631	2.0
	2019	47,367	24.7	49,881	13.5	9,363	38.4	39,647	10.1	49,826	2.9
	2018	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0
	2017	51,028	27.1	53,711	14.1	11,398	39.3	43,712	11.3	53,738	3.2

<sup>(1)</sup> Reporting period is January 1 through December 31 (2) Excludes data with errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy
\* Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 23C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

**Summary of Trends in Infant Health Indicators by Race/Ethnicity** 

	Summary of	Trends in	Infant H	lealth In	dicators by	y Race/l	Ethnicity (	2)		
Race/Ethnicity	Year	Birthweight Preterm Full Term LBW							Ever Br	eastfed
			Low (3)	9	(5)		(6	)		
		Number	%	%	Number	%	Number	%	Number	%
White, Not Hispanic										
	2020	21,714	8.7	7.6	22,434	10.9	19,212	3.6	22,058	69.8
	2019	24,085	8.4	8.1	24,733	11.0	21,257	3.4	24,266	72.3
	2018	25,171	8.3	8.3	25,844	10.9	22,236	3.4	25,327	71.9
	2017	26,229	8.4	8.5	27,065	10.8	23,152	3.5	26,555	71.5
Black, Not Hispanic										
	2020	13,398	15.0	3.4	13,902	15.6	11,200	6.9	13,622	54.7
	2019	14,676	14.6	3.4	15,109	15.5	12,281	6.6	14,849	58.1
	2018	14,739	14.4	3.7	15,218	15.5	12,342	6.7	14,896	57.7
	2017	15,697	14.1	3.4	16,145	15.5	13,154	6.3	15,781	55.3

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3) &</sup>lt;2500 g.

<sup>(4) &</sup>gt;4000 g. (5) <37 weeks gestation.

<sup>(6) 37</sup> or more weeks gestation and <2500 g.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions

#### Table 23C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

**Summary of Trends in Infant Health Indicators by Race/Ethnicity** 

Su	mmary of	Trends in	Infant H	lealth In	dicators by	y Race/I	Ethnicity (2	2)		
Race/Ethnicity	Year		Birthweight	t	Pret	Full Terr	m LBW	Ever Br	eastfed	
			Low (3)		(5)		(6	)		
		Number	%	%	Number	%	Number	%	Number	%
Hispanic										
	2020	4,620	7.8	7.3	4,818	11.7	4,040	3.3	4,758	68.7
	2019	5,004	7.7	7.2	5,117	11.6	4,380	3.2	5,029	71.2
	2018	5,062	7.4	7.5	5,167	11.8	4,425	3.3	5,100	72.3
	2017	5,232	7.5	7.9	5,329	11.9	4,543	2.9	5,262	72.5
American Indian/Alaska Native										
	2020	150	8.7	8.7	154	11.7	128	4.7	151	69.5
	2019	157	7.6	14.0	162	13.6	131	3.8	158	69.6
	2018	158	7.0	11.4	166	10.2	140	3.6	158	72.8
	2017	157	10.2	7.6	167	16.8	128	3.9	157	79.0

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3) &</sup>lt;2500 g.

<sup>(4) &</sup>gt;4000 g. (5) <37 weeks gestation.

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#### Table 23C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

**Summary of Trends in Infant Health Indicators by Race/Ethnicity** 

	Summary of	Trends in	Infant H	lealth In	dicators by	y Race/l	Ethnicity (	2)		
Race/Ethnicity	Year		Birthweight	t	Pret	erm	Full Teri	m LBW	Ever Br	eastfed
			Low (3)	- 3	(5)		(6)			
		Number	%	%	Number	%	Number	%	Number	%
Asian/Pacific Islander										
	2020	976	12.9	3.6	1,037	10.6	861	7.7	1,023	71.1
	2019	1,017	10.7	4.2	1,051	10.9	899	6.0	1,022	79.4
	2018	1,039	11.6	4.8	1,075	12.1	905	7.1	1,058	79.4
	2017	1,155	10.7	6.1	1,199	11.3	1,012	5.4	1,183	79.9
Multiple Races										
	2020	1,965	11.6	6.1	2,025	13.3	1,683	5.0	1,993	66.5
	2019	2,193	10.6	6.1	2,272	12.1	1,916	5.1	2,202	70.0
	2018	2,402	9.5	7.5	2,475	11.5	2,105	4.3	2,409	69.6
	2017	2,035	9.8	6.7	2,097	11.8	1,779	4.2	2,043	69.7

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3) &</sup>lt;2500 g.

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#### Table 23C

# **2020** Pregnancy Nutrition Surveillance (1) Michigan

**Summary of Trends in Infant Health Indicators by Race/Ethnicity** 

Su	ımmary of	Trends in	Infant H	lealth In	dicators by	y Race/I	Ethnicity (2	2)		
Race/Ethnicity	Year		Birthweigh	t	Pret	Preterm		n LBW	Ever Breastfed	
			Low (3)	High (4)	(5	5)	(6)	)		
		Number	%	%	Number	%	Number	%	Number	%
All Other/Unknown										
	2020	0	*	*	0	*	0	*	0	*
	2019	0	*	*	2	*	0	*	2	*
	2018	21	*	*	21	*	21	*	21	*
	2017	15	*	*	16	*	12	*	16	*
Total All Race/Ethnic Groups										
	2020	42,825	10.8	6.1	44,372	12.6	37,125	4.8	43,607	64.8
	2019	47,135	10.4	6.4	48,449	12.5	40,866	4.5	47,531	67.8
	2018	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7
	2017	50,526	10.2	6.7	52,025	12.4	43,785	4.3	51,003	66.7

Run Date: 7/20/2021

<sup>(1)</sup> Reporting period is January 1 through December 31

<sup>(2)</sup> Excludes records with unknown data errors.

<sup>(3) &</sup>lt;2500 g.

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<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions